

TOKEM MB-50 (R)

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TOKEM MB-50 (R) is a ready mixture of monodisperse Type I strong base anion exchange resin and monodisperse strong acid cation exchange resin for mix bed regeneration filters.

GENERAL DESCRIPTION	
Matrix	Styrene-DVB
Functional group	Sulfonic acid/quaternary amine (type 1)
Polymer structure	gel
Ionic form	H ⁺ / OH ⁻ Hydrogen / hydroxyl

Application area:

TOKEM MB-50 (R) is used for water purification in regenerable mix bed filters.

Physical and Chemical Characteristics:

CHARACTERISTICS	STANDARD VALUE
Appearance	Spherical beads, yellow to dark brown
Ion exchange resin content, volume %	
Cation exchange resin	50±5
Anion exchange resin	50±5
PARTICLE SIZE DISTRIBUTION	
Mean particle size, mm	
Cation exchange resin	0.650±0.025
Anion exchange resin	0.575±0.025
Uniformity coefficient, max	
Cation exchange resin	1.1
Anion exchange resin	1.1
Moisture retention, %	
Cation exchange resin	45-51
Anion exchange resin	55-60
Total capacity, mmol/cm ³ (mg-eq/cm ³), min	
Cation exchange resin	2.0
Anion exchange resin	1.1
Difference between settling times of anion and cation resins, sec, max	7
Electrostatic coefficient, % max	20



Processing Characteristics:

SUGGESTED OPERATING CONDITIONS AND MODES:	
Bed depth, min, mm	800
Temperature limit, °C	60
pH limit	0-14
Regenerant, %	
Cation exchange resin	(1-1.5-3.0) H ₂ SO ₄ (4-5) HCl
Anion exchange resin	(3-4) NaOH
Total rinse requirement, BV	2-4